

CLAIMS

1. An arrangement for stabilizing a paper web (3) in a paper machine, which arrangement comprises

- at least three cylinders (4, 5, 6), which have been arranged so that a pocket space is formed between them,
- a blow box (7) arranged in the pocket space, which blow box has a blow nozzle (12), in which a nozzle slot (19) has been arranged,
- a separate wall (10) substantially in the direction of the blow box (7),
 - which wall has a first edge and a second edge that are substantially parallel,
 - which wall has been attached from its first edge to the blow box (7),
 - the height of which wall in the travelling direction of the paper web (3) is 25 – 300% of the height of the blow box (7) in the travelling direction of the paper web (3),
 - in the second edge of which wall a boundary layer air doctor (15) has been arranged, which doctor extends substantially unto the surface of the cylinder (4, 5, 6), and

which wall (10) has been attached to the blow box (7) so that the blow box (7) and the wall (10) form a space in the area between the opening nip (8) and the closing nip (9) following it, into which space an underpressure is arrangeable in order to support the paper web (3) towards the fabric (2) in the area between said nips (8, 9).

2. An arrangement according to Claim 1, **characterized in** that the height of the wall (10) in the travelling direction of the paper web (3) is 50 – 150% of the height of the blow box (7) in the travelling direction of the paper web (3).

3. An arrangement according to Claim 2, **characterized in** that the height of the wall (10) in the travelling direction of the paper web (3) is 70 – 100% of the height of the blow box (7) in the travelling direction of the paper web (3).

4. An arrangement according to Claim 1, **characterized in** that a boundary layer air doctor (15) has been arranged in the second edge of the wall (10) via a support element (16).
5. An arrangement according to Claim 1, **characterized in** that into the space formed by the blow box (7) and the wall (10) an underpressure can be arranged that is at least 50 Pa lower than the normal pressure.
6. An arrangement according to Claim 1, **characterized in** that a flexible nozzle wall (18) has been arranged in connection with the blow box (7).
7. An arrangement according to Claim 1, **characterized in** that the boundary layer air doctor (15) has been arranged to be replaceable without taking the said support element (16) and/or the said blow box (7) away from the paper machine.
8. An arrangement according to Claim 7, **characterized in** that the boundary layer air doctor (15) has been arranged to be replaceable by pulling or pushing away the boundary layer air doctor (15) that is in its place and by pulling or pushing a new boundary layer air doctor (15) to its place.
9. A paper machine that comprises an arrangement according to Claim 1 for stabilizing a paper web.